

Dietetic ballast materials and pectin prodn. from dried plant residues - by treating with ammonia gas to foramido-pectin(s), extracting the amidated pectin and washing and drying the residue

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Inventor: STEINMETZER WALTER (DE)
Applicant: AMINO GMBH (DE)
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Abstract of DE4042405

Dietetic ballast or filler materials are prepd. from dried plant residues by first treating the dried plant residues with gaseous ammonia at room temp., after which the amidated pectin is extracted from the plant residues with water or dil. NaOH and the plant residues from which the pectin has been extracted are washed and neutralised and further processed into dietetic ballast or filler materials in the known way. Pref. the dried plant residues, esp. sugar beet chips, are placed in a reaction tower and an atmos. of ammonia is introduced. The contact time between the dried residues and the ammonia gas is pref. 30 mins to 10 hours, esp. 30-90 mins. USE/ADVANTAGE - The process allows extraction of high grade pectin from plant residues such as sugar beet chips, and also removes other water soluble impurities from the plant residues so that very pure cellulose- and hemicellulose-contg. residues are obtd. which can be processed into ballast and filler materials for incorporation into foodstuffs and dietary prods. such as reduced calorie foodstuffs.

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